



2012 "VOLUNTEERS WORKING WITH INVASIVES" GRANTS REPORT FORM

Display Report

PROJECT BACKGROUND INFORMATION

Project Title:	Mechanical Control of Invasive Plants: Banana Poka and English Holly	
Region: Use region number ONLY	1	
Station:	Hakalau Forest National Wildlife Refuge	
Contact Person: Name and Phone Number	Steve Kendall, 808-443-2300 ext. 228	
Project Description: (Up to 250 words)	<p>Hakalau Forest NWR was established to conserve endangered forest birds and their habitats. The Refuge supports a diversity of native plants and birds, including 27 which are listed under the Endangered Species Act. Management actions have led to stable or increasing populations of most forest bird species, improvements in forest habitats, and expansion of native and endangered plant species. These gains are threatened by invasion of exotic plants, animals and disease. Two invasive plants, banana poka and English holly were identified as highest priority target invasive species in Hakalau Forest NWR's 2010 Comprehensive Conservation Plan (CCP). Control and monitoring of these invasive species is accomplished through Integrated Pest Management (IPM) techniques, including mechanical and chemical methods. Banana poka is a vine with seeds that are dispersed by native and introduced animals. English holly is a tall shrub that can spread via seeds or vegetatively. Both plants can out-compete native species. Aerial vines of banana poka are removed manually, while ground hugging vines are treated using foliar spray. Mature plants of English holly are cut and stumps are treated with herbicide. However, new plants that sprout from the roots of treated plants need to be mechanically removed. In FY12 all efforts were focused on English Holly removal.</p>	
List of Invasives Species Targeted:	Common Name	Scientific Name
	English Holly	<i>Ilex aquafilia</i>
Project Status:	InProgress	
Project Completion Date or Estimated Completion Date: (mm/dd/yyyy)	12/31/2013	

VOLUNTEER INFORMATION

Volunteer Affiliation: (Check all that apply)	VA_FriendsGrp VA_Scouts VA_AmeriCorps VA_GardenClub VA_StudentConsAssoc VA_CivicOrg VA_Other
Volunteer Involvement: Describe the type of work the volunteers performed. (Up to 150 words)	We organized 4 trips to the refuge to remove English holly. Volunteers hiked through the forest in the areas identified with highest concentrations of holly. When plants were found they were either pulled, bagged and removed or cut down and hung in surrounding trees. Stumps of cut plants (any plant that was not removed by the roots) were treated with herbicide by refuge staff. Work was grueling. It required hiking across rough terrain, dealing with a prickly plant, cutting large trees and haul vegetation back to trucks.
Total Number of Volunteers:	45
Total Number of Volunteer Hours:	256
Partnerships: List both new and existing partnerships utilized in this project. (Up to 150 words).	Friends of Hakalau Forest National Wildlife Refuge, Paka Love (local youth group usually focused on beach park maintenance), Boy Scouts, Oahu Botanical Gardens

PROJECT RESULTS

Project Results: Give an overview of the results of the project. Include quantifiable measure of success, such as maps produced, efficacy of control measures, number of sites where invasions were detected early and responded to, number of community contacts, etc. (Up to 250 words).	During removal efforts funded by this grant we found English holly to be more widespread and abundant than previously thought. Additionally, a contractor had treated larger holly trees in this area with herbicide and we found that these treatment was not wholly effective. Many tree were re-growing. With grant funds we were able to purchase equipment that will allow us to continue removal efforts with volunteer groups in the future. We intend to do this until the entire distribution area of holly is covered. Because holly removal required more than expected effort, we did not remove any banana poka, another high priority invasive plant found on the refuge.
Number of Acres Treated:	22
Number of Acres Inventoried and/or Mapped:	22
Number of Acres Restored:	22

BUDGET INFORMATION

Budget: Account for funds in broad categories such as equipment, volunteer stipends, travel, coordinator salary/contract, etc.

Total Grant Amount:	\$ \$9,000.00
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Breakdown of Expenditures:

Category	Total \$ Spent	% of Total Grant
Equipment / Supplies	\$7,171.37	80%
Chemical	\$1,828.63	20%
Biocontrol Agents		
Travel		
Volunteer Stipends		
Volunteer Coordinator Salary/Contract		
Restoration Materials		

Other		
TOTAL		

<p>Recommendations: (OPTIONAL) How useful was this program for meeting refuge invasive species objectives and how can it be improved?</p>	<p>English Holly has been identified as a high priority species for eradication at Hakalau Forest NWR. It is concentrated in the southwest corner of the refuge. Holly was originally planted around ranch buildings located in this area prior to establishment of the refuge. This is one of few places where it is found in Hawaii, so eradication here is crucial. The removal efforts done thus far and those planned in the future using equipment purchase with this grant will help us meet that goal.</p>
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